## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	ORITY				
To: GARY P. KATZ EXXONMOBIL UPSTREAM RESEARCH COMPANY		PCT			
PO BOX 2189 HOUSTON, TX 77252-2189		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	79.111 2000		
Applicant's or agent's file reference		FOR FURTHER	•		
2003UR014			See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US04/08238	18 March 2004 (18.03.2		31 March 2003 (31.03.2003)		
International Patent Classification (IPC)	or both national classificat	tion and IPC			
IPC(7): G01V 7/00 and US C1.: 702/002					
Applicant					
EXXONMOBIL UPSTREAM RESEAR	CH COMPANY				
1. This opinion contains indications rel	ating to the following item	ns:			
Box No. I Basis of the	opinion				
Box No. II Priority	Priority				
Box No. III Non-establi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of uni	Lack of unity of invention				
Box No. V Reasoned st	Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain doc	uments cited				
Box No. VII Certain defe	ects in the international ap	application			
Box No. VIII Certain obs	ervations on the internation	ational application			
2. FURTHER ACTION					
International Preliminary Examinin	g Authority ("IPEA") ex the IPEA and the chosen l	ccept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1 bis (b) lered.		
If this opinion is, as provided above IPEA a written reply together, wh mailing of Form PCT/ISA/220 or be For further options, see Form PCT/I	ere appropriate, with ame fore the expiration of 22	endments, before th	EA, the applicant is invited to submit to the expiration of 3 months from the date of crity date, whichever expires later.		
3. For further details, see notes to Form	n PCT/ISA/220.				
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	s	Authorized officer Victor J. Taylor Telephone No. 5			

Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	-
PCT/US04/08238	

Box No	. I Basis of this opinion
it was	egard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and
	23.1(b)).
2. With claime	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the discount of invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/08238

INTERNATIONAL SELECTION	2 Lie 1/2\/	a with regard to povelty inventive step or indust	trial
Box No. V Reasoned statement under Rule 43 applicability; citations and explana	<i>5 DIS</i> .I(a)( itions sunt	i) with regard to novelty, inventive step or industriant such statement	
applicability; citations and explain	tioib sup		
1. Statement			j
V V OD	Claims	s <u>1-14</u>	YES
Novelty (N)		NONE	NO
	Olumin		
400	Claims	s <u>1-14</u>	YES
Inventive step (IS)		s NONE	NO
	Clauli	NONE.	
	Claim	s <u>1-14</u>	YES
Industrial applicability (IA)		s NONE	NO
	Сташт	NONE	
2. Citations and explanations:			_
	3(2)-(3), be	ecause the prior art does not teach or fairly suggest the many the data and operational criteria including the use of co	odeling
			ontour of
constant deposit thickness determination for generation	ili Ot Huid H	the and deposit properties	
	2014)	and provide for the modeling of the subterranean deposits	for fluid
Claims 1-14 meet the criteria set out in PCT Article 3 flow and provide for the industrial applicability becau	ise the subje	ect matter claimed can be made or used in industry.	
now and provide to the means to			
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Form PCT/ISA/237 (Box No. V) (January 2004)